

Breeding. WCL-LY1. GP-20. Pedigree - Bulk population from one accession originating from Arizona (PI 311165) and nine from Texas (PI 293005, PI 293006, PI 293007, PI 293009, PI 293010, PI 293012, PI 293013, PI 293015, and PI 293016). One of three lines developed for improved oil traits. First public release material of *lesquerella* germplasm. Produced higher lesquerolic acid yields than unselected population (15.3  $\pm$  1.58 versus 11.76  $\pm$  0.57g kg<sup>-1</sup>). Plant height ranged between 11.7 and 17.5cm. Average 1000 seed weight 0.60g. Seed yield averaged 15g per plant.

**PI 596363. *Lesquerella fendleri* (A. Gray) S. Watson**

Breeding. WCL-LO1. GP-21. Pedigree - Bulk population from one accession originating from Arizona (PI 311165) and nine from Texas (PI 293005, PI 293006, PI 293007, PI 293009, PI 293010, PI 293012, PI 293013, PI 293015, and PI 293016). One of three lines developed for improved oil traits. First public release material of *lesquerella* germplasm. Produced significantly more seed-oil than unselected population (26  $\pm$  2.42 versus 23  $\pm$  1.07g kg<sup>-1</sup>). Plant height ranged between 11.7 and 17.5cm. Average 1000 seed weight 0.60g. Seed yield averaged 15g per plant.

**PI 596364. *Lesquerella fendleri* (A. Gray) S. Watson**

Breeding. WCL-LH1. GP-22. Pedigree - Bulk population from one accession originating from Arizona (PI 311165) and nine accessions from Texas (PI 293005, PI 293006, PI 293007, PI 293009, PI 293010, PI 293012, PI 293013, PI 293015, and PI 293016). One of three lines developed for improved oil traits. First public release of *lesquerella* germplasm. Produced significantly more lesqueolic acid than unselected population (54.5  $\pm$  2.32 versus 50.2  $\pm$  1.12g kg<sup>-1</sup>). Plant height ranged between 11.7 and 17.5cm. Average 1000 seed weight 0.60g. Seed yield averaged 15g per plant.

The following were developed by Julian B. Thomas, Agriculture Canada, Crop Sciences Section, PO Box 3000, Main, Lethbridge, Alberta T1J 4B1, Canada; Denis A. Gaudet, Agriculture Canada, Research Station, Box 3000, Main, Lethbridge, Alberta T1J 4B1, Canada; R. M. DePauw, Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Res. Centre, Box 1030, Swift Current, Saskatchewan S9H 3X2, Canada; R.E. Knox, Agriculture Canada, Research Station, Box 1030, Swift Current, Saskatchewan S9H 3X2, Canada; T. Demeke, Agriculture and Agri-Food Canada, Research Centre, Lethbridge, Alberta T1J 4B1, Canada; D.A. Laroche, Agriculture and Agri-Food Canada, Research Centre, Lethbridge, Alberta T1J 4B1, Canada. Received 12/16/1996.

**PI 596365. *Triticum aestivum* L., nom. cons.**

Breeding. Pureline. P8913-V2A5. GP-542. Pedigree - BW90\*4/Bt10. Hard red-kerneled spring wheat. Resistant to common bunt (*Tilletia caries* and *T. laevis*) races L-1, L-16, T-1, T-6, T-13, and T-19. Derived from a source possessing the common bunt resistance gene Bt10.

**PI 596366. *Triticum aestivum* L., nom. cons.**

Breeding. Pureline. P8917-B4D4. GP-543. Pedigree - HY358\*4/Bt10. Hard white-kerneled spring wheat with short stature. Resistant to common bunt (*Tilletia caries* and *T. laevis*) races L-1, L-16, T-1, T-6, T-13, and T-19. Derived from a source possessing the common bunt resistance gene Bt10.